NOAA
NATIONAL OCEAN SERVICE

UNITED STATES – WEST COAST
WASHINGTON

BELLINGHAM BAY

Polyconic Projection
Scale 1:40,000
North American Datum of 1983
(World Geodetic System, 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

COLREGS, 80.1390 (see note A)
International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.
Formerly C&GS 8578, 1st Ed., June 1983 - D-1922-224

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum 1983 (NAD 83) and for charting purposes is considered equivalent to The World Geodetic System 1984 (WGS 84). Geographic positions referred to this North American Datum of 1927 must be corrected an average of 0.6'18" southward and 4.6'18" westward to agree with this chart.

TIDAL INFORMATION

Place		Height referred to datum of soundings (MLLW)			
Name	(LAT)/(Long)	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
		feet	feet	feet	feet
Bellingham	(48°45'N/122°29'W)	8.6	7.8	2.6	-4.5
Eagle Harbor	(48°35'N/122°42'W)	8.2	7.4	2.4	-4.5
Port Migley	(48°45'N/122°42'W)	8.6	7.8	2.6	-4.5

(LAT)(Long)

CANADIAN WEATHER RADIO BROADCAST

The Canadian Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Vancouver, B.C. CFA-240 162.40 MHz

CAUTION

Only marine radiobeacons have been controlled for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
(LA)Accurate location (e)Approximate location

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Corps of Engineers and U.S. Coast Guard.

STORM WARNINGS

The National Weather Service displays storm warnings at the following approximate location: Bellingham (48°45.4' -122°30.2')

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated)

AERO (aeronautical)	G (green)	Mo (morse code)	R (TR) (radio tower)
Al (alternating)	Gp (group)	N (nun)	Rbcn (radiobeacon)
B (black)	IQ (interrupted quick)	OBSC (obscured)	Ry (racon)
Bn (beacon)	Iso (isophase) (5 sec)	Oc (occulting)	Sp (spire)
C (can)	LT HO (lighthouse)	Oc (group) (3)	VI (M) (visible (miles))
Dia (diaphone)	M (nautical mile)	Or (orange)	VQ (very quick)
F (fl) (equal interval) (fixed and flashing)	Man (manned)	R (red)	W (white)
F (fixed)	MICRO (TR) (microwave tower)	Ra (ref) (radar reflector)	WHIS (whistle)
FI (flashing)	Mon (monument)	R (R) (radiobeacon)	Y (yellow)

Bottom characteristics

Bld (boulders)	Co (coral)	Gy (gray)	Rk (rock)	Sy (silt)	
Br (brown)	G (gravel)	H (hard)	S (sand)	Wd (shells)	
Cy (clay)	Grs (grass)	M (mud)	Sft (soft)	W (WDW)	

Miscellaneous

Abt (about)	Obstn (obstruction)	PD (position doubtful)	Subm (submerged)	
ED (existence doubtful)	PA (position approximate)	Rep (reported)		

(A) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(C) Rocks that cover and uncover, with heights in feet above datum of soundings.

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

Nautical Chart Catalog No. 2, Panel G

18474

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Nautical Miles
Yards

LOGARITHMIC SPEED SCALE

To find SPEED, ply a one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.6 nautical miles run in 15 minutes, the speed is 18.4 knots

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible. (33 CFR 153).

BAR OF CHANNEL	LEFT HALF OF BAR	MIDDLE HALF OF BAR	RIGHT HALF OF BAR	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STATUTE MILES)	DEPTH MLLW (FEET)
HARBOR WATERWAY	30.8	29.7	30.7	5-88	377	0.82	30
BOOTH REACH	13.4	15.6	17.8	5-88	350	0.16	12
RIDDLE REACH	8.1	8.4	8.8	5-88	3	0.12	18
TWIN REACH	8.4	13.9	12.4	5-88	150	0.53	14
I&J STREET WATERWAY							
BELLINGHAM BAY WATERWAY							
ENTRANCE CHANNEL	22.1	23.8	21.4	4-5-88	280	0.34	28
SOUTHWEST PORTION OF BASIN	17.8	20.9	18.3	4-5-88	300-380	0.28	28
NORTHEAST PORTION OF BASIN	19.2	19.3	19.1	4-5-88	1-380	0.13	28

PROGRESS BY COMPUTER ASSISTED METHODS

NOTE—CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

NATIONAL WILDLIFE REFUGE

The areas labeled Matt (National Wildlife Refuge) are closed to the public to protect breeding colonies of seabirds, endangered and threatened species, and marine mammals. Boaters are requested to stay at least 200 yards away from these islands to avoid disturbance to these animals.

CAUTION
CHANGES in BUOYAGE

Mariners are advised that authorized aids to navigation are being changed to conform to maritime standards of the International Association of Lighthouse Authorities Maritime Buoyage System, Region B. Significant changes are: black port hand buoys to green; black and white vertically striped buoys to red and white vertically striped buoys; and lateral lights from white to red or green as appropriate. Changes to aids to navigation will be announced in the Defense Mapping Agency Hydrographic/Topographic Center weekly Notice to Mariners and the U.S. Coast Guard Local Notice to Mariners.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

BELLINGHAM HARBOR
Mercator Projection
Scale 1:20,000

PLANE COORDINATE GRIDE
(based on NAD 1927)
Washington, State Grid, north zone, is indicated by dashed ticks at 5000 foot intervals. The last 3 digits are omitted.

NOAA nautical charts are constructed to existing standards and are designed to promote safe navigation. Since our waterways are subject to continual change, the National Ocean Service encourages chart users to submit corrections or comments for the improvement of this product to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852. By working together, we can make our activities safer and more efficient.

Thomas J. Maguhhis
Assistant Administrator for Ocean Services and Coastal Zone Management

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Wash., or at the Office of the District Engineer, Corps of Engineers in Seattle, Wash.
Refer to charted regulation section numbers.

(CONTINUED ON CHART 18427)
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23rd Ed., July 89 ■
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CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

FATHOMS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	0	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	
METERS	0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

(Bellingham Bay)
SOUNDINGS IN FATHOMS - SCALE 1:40,000

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